

Serial No.

cket No. RD-28490

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JCE28 U.S. PRO  
10/074544  
02/14/02

Applicant: Radislav A. Potyrailo

Group Art Unit:

Serial No.:

Examiner:

Filed:

For METHOD AND APPARATUS FOR THE RAPID  
EVALUATION  
OF A PLURALITY OF MATERIALS OR SAMPLES

#2  
Plun Kott  
8/28/02

INFORMATION DISCLOSURE STATEMENT

- ☒ 1 **Pursuant to 37CFR 1.97(b)**  
[within 3 months of national, non-CPA filing or prior to 1st Office Action] *no charge*
- ☐ 2 **Certification Pursuant to 37 CFR 1.97(c)(1)**  
[before Final Office Action, Allowance, or other action closing prosecution] *no charge*
- ☐ 3 **Fee Payment Pursuant to 37 CFR 1.97(c)(2)**  
[before Final Office Action, Allowance, or other action closing prosecution] *\$180.00*
- ☐ 4 **Certification & Fee Payment Pursuant to 37 CFR 1.97(d)**  
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ATTN: BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98:

- ☒ 5 A list of documents on form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date indicated below.

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This paper is submitted in accordance with:

- ☒ 6 37 CFR 1.97(b): [within 3 months of national, non-CPA filing or prior to 1st Office Action]
- ☐ 7 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and
- ☐ 8 The required Certification made in item 11 below; or
- ☐ 9 The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 15 below.
- ☐ 10 37 CFR 1.97(d): [on or before issue fee payment]; and
- a) The required Certification is stated in item 11 below; and
- b) The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.
- ☒ 11 Certification
- ☐ 12 Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- ☐ 13 No item contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.
- ☒ 14 Payment of all applicable fees:
- ☒ 15 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 07-0868

An original and two (2) copies of this document are enclosed.

Respectfully submitted,

2/5/02

Date

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10/074544

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	<b>Applicant(s):</b> Potyrailo, Radislav et al	
	<b>Filing Date</b> Herewith	<b>Group</b> Unassigned

## U.S. PATENT DOCUMENTS

Examiner * Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,106,938	04/21/1992	Bookbinder et al.	528	176	06/08/1989
	5,015,843	05/14/1991	Seitz et al.	250	227.21	02/15/1990
	5,451,632	09/19/1995	Okumura et al.	524	537	10/04/1993
	5,488,086	01/30/1996	Umeda et al.	525	92	12/25/1991
	5,519,096	05/21/1996	Hara	525	478	06/30/1994
	5,571,401	11/05/1996	Lewis et al.	205	787	03/27/1995
	5,644,017	07/01/1997	Drumright et al.	528	196	08/25/1995

## FOREIGN PATENT DOCUMENTS

Examiner * Initial	Document Number	Date	Country	Cl ass	Subclass	Translation	
						Yes	No
	1775647	06/12/1990	Sov.				
	WO 0036410	06/22/2000	International Pat. App.				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)

Examiner * Initial	Title/Author/Publisher/Year Published/Page(s)
	Persaud, K. C.; Travers, P. J., Arrays of broad specificity films for sensing volatile chemicals, In <i>Handbook of Biosensors and Electronic Noses. Medicine, Food, and the Environment</i> ; E. Kress-Rogers, Ed.; CRC Press: Boca Raton, FL, 1997; pp 563-592
	Freud, M. S.; Lewis, N. S., A chemically diverse conducting polymer-based "electronic nose", <i>Proc. Natl. Acad. Sci. USA</i> <b>1995</b> , <i>92</i> , 2652-2656.
	Woolfson, A. D., Moisture-activated, electrically conducting bioadhesive interfaces for biomedical sensor applications, <i>Analyst</i> <b>1996</b> , <i>121</i> , 711-714.
	Vaid, T. P.; Burl, M. C.; Lewis, N. S., Comparison of the performance of different discriminant algorithms in analyte discrimination tasks using an array of carbon black-polymer composite vapor detectors, <i>Anal. Chem.</i> <b>2001</b> , <i>73</i> , 321-331.
<b>EXAMINER</b>	
<b>DATE CONSIDERED</b>	
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**U.S. PATENT DOCUMENTS**

Examiner * Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,674,943	10/07/1997	Farah et al.	525	146	02/14/1995
	5,717,056	02/10/1998	Varadarajan et al.	528	196	12/17/1996
	5,919,886	07/06/1999	Matsuda et al.	528	42	09/19/1997
	5,969,066	10/19/1999	Enokida et al.	526	247	08/18/1997
	5,973,068	10/26/1999	Yamaya et al.	524	865	11/06/1997
	5,973,126	10/26/1999	Ueno et al.	534	656	10/09/1997
	5,981,008	11/09/1999	Hofmann	428	35.7	10/08/1998

**FOREIGN PATENT DOCUMENTS**

Examiner * Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)**

Examiner * Initial	Title/Author/Publisher/Year Published/Page(s)
	Matsuguchi, M.; Umeda, S.; Sadaoka, Y.; Sakai, Y., Characterization of polymers for a capacitive-type humidity sensor based on water sorption behavior, <i>Sens. Actuators B</i> <b>1998</b> , 49, 179-185.
	Potyrailo, R. A.; Hobbs, S. E.; Hieftje, G. M., Optical waveguide sensors in analytical chemistry: today's instrumentation, applications and future development trends, <i>Fresenius' J. Anal. Chem.</i> <b>1998</b> , 362, 349-373.
	Hierlemann, A.; Schweizer-Berberich, M.; Weimar, U.; Kraus, G.; Pfau, A.; Göpel, W. In <i>Sensors Update, Vol. 2</i> ; H. Baltes; W. Göpel and J. Hesse, Ed.; VCH: Weinheim, 1996; pp 119-180,
	Semancik, S.; Cavicchi, R., Kinetically controlled chemical sensing using micromachined structures, <i>Acc. Chem. Rev.</i> <b>1998</b> , 31, 279-287.

**EXAMINER****DATE CONSIDERED**

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**U.S. PATENT DOCUMENTS**

Examiner * Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	6,093,308	07/25/2000	Lewis et al.	205	787	02/26/1999
	US 6,170,318B1	01/09/2001	Lewis	73	23.24	10/30/1998
	US 6,182,499B1	02/06/2001	McFarland et al.	73	24.06	10/08/1997
	US6,290,911B1	09/18/2001	Lewis et al.	422	82.02	06/29/1998
	US6,319,724B1	11/20/2001	Lewis et al.	436	149	06/17/1999
	US6,331,244B1	12/18/2001	Lewis et al.	205	777.5	01/06/2000
	US6,336,353	1/8/02				

**FOREIGN PATENT DOCUMENTS**

Examiner * Initial	Document Number	Date	Country	Class	Subclass	Translation	
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)**

Examiner * Initial	Title/Author/Publisher/Year Published/Page(s)
	Dickinson, T. A.; Walt, D. R.; White, J.; Kauer, J. S., Generating sensor diversity through combinatorial polymer synthesis, <i>Anal. Chem.</i> <b>1997</b> , 69, 3413-3418.
	Penza, M.; Anisimkin, V. I.; Maximov, S. A.; Vasanelli, L., Selective gas detection using uncoated SAW delay lines, <i>Sens. Actuators B</i> <b>1997</b> , 42, 103-107.
	Chung, R.; McGill, R. A., Performance of a polymer coated SAW device under pulse excitation, 634-638, IEEE International Frequency Control Symposium (1998).
	Nakata, S.; Takitani, R.; Hirata, Y., Discrimination of glucose from its interferences using an amperometric sensor based on electrochemical nonlinearity, <i>Anal. Chem.</i> <b>1998</b> , 70, 4304-4308.

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)**

Examiner * Initial	Title/Author/Publisher/Year Published/Page(s)
	Price, G. J.; Buley, J. M., Measurement of dissolution kinetics of thin polymer films, In <i>Radiation Curing of Polymers II</i> ; D. R. Randell, Ed.; The Royal Society of Chemistry: Bristol, England, 1991; pp 416-429.
	Gaiglitz, G., Optical sensor arrays based on micotiterplate dimensions, <i>Mikrochim. Acta</i> <b>1999</b> , <i>131</i> , 9-17.
	Brecht, A.; Burckardt, R.; Rickert, J.; Stemmler, I.; Schuetz, A.; Fischer, S.; Friedrich, T.; Gaiglitz, G.; Goepel, W., Transducer-based approached for parallel binding assays, <i>J. Biomolecular Screening</i> <b>1996</b> , <i>1</i> , 191-201.

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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Examiner * Initial	Title/Author/Publisher/Year Published/Page(s)
	Nakata, S.; Akakabe, S.; Nakasuji, M.; Yoshikawa, K., Gas sensing based on a nonlinear response: discrimination between hydrocarbons and quantification of individual components in a gas mixture, <i>Anal. Chem.</i> , <b>1996</b> , 68, 2067-2072.
	Thompson, M.; Stone, D. C., <i>Surface-Launched Acoustic Wave Sensors: Chremical Sensing and Thin-Film Characterization</i> ; Wiley: New York, NY, 1997, pp 196.
	Jon M. Sutter and Peter C. Jurs, Neural Network Classification and Quantification of Organic Vapors Based on Fluorescence Data from a Fiber-Optic Sensor Array, <i>Anal. Chem.</i> 1997, 69, 856-862.
	Stephen R. Johnson, Jon M. Sutter, Heidi L. Engelhardt, and Peter C. Jurs, Joel White and John S. Kauer, Todd A. Dickinson and David R. Walt, Identification of Multiple Analytes Using an Optical Sensor Array and Pattern Recognition Neural Networks, <i>Anal. Chem.</i> 1997, 69, 4641-4648.

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